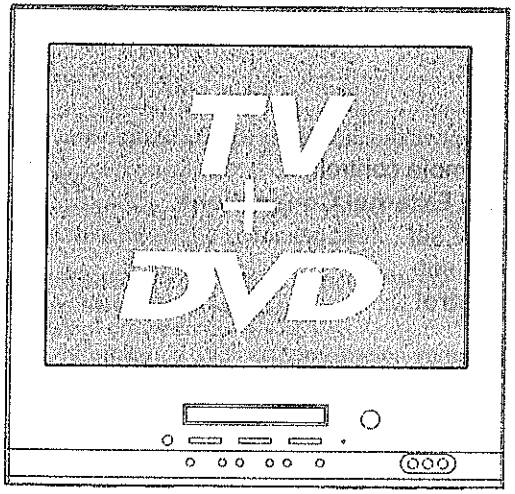
20ED200V

ELECTROHOME

20" TV / DVD Combination

USER MANUAL



Please read this manual carefully before using this TV set and keep it for future reference.

PRECAUTIONS

FCC WARNING-This equipment may generate or use radio frequency energy.Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual.The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

LASER SAFETY
This unit employs a laser.Only a qualified service person should remove the cover or attempt to service this device,due to possible eye injury.

CAUTION:USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION:VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED.DO NOT STARE INTO BEAM.

LOCATION:INSIDE,NEAR THE DECK MECHANISM.

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Important safety Instructions

WARNING:TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.

THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

The important note is located on the rear of the cabinet.

IMPORTANT SAFEGUARDS

1. READ INSTRUCTIONS
All the safety and operating instructions should be read before the unit is operated.
2. RETAIN INSTRUCTIONS
The safety and operating instructions should be retained for future reference.
3. HEED WARNINGS
All warnings on the unit and in the operating instructions should be adhered to.
4. FOLLOW INSTRUCTIONS
All operating and use instructions should be followed.
5. CLEANING
Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
Use a damp cloth for cleaning the exterior cabinet only.
6. ATTACHMENTS
The manufacturer of this unit does not make any recommendations for attachments, as they may cause hazards.
7. WATER AND MOISTURE
Do not use this unit near water. For example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.
8. ACCESSORIES
Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury, and serious damage to the unit.

(symbol provided by RETAC)
8A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

9. VENTILATION
Slots and openings in the cabinet back or bottom are provided for ventilation, and to ensure reliable operation of the unit, and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat source. This unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. POWER SOURCE
This unit should be operated only from the type of power source indicated on the rating plate. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For units intended to operate from battery power, or other sources, refer to the respective pages in this Owner's Manual for their operating instructions.

Important safety Instructions

11. GROUNDING OR POLARIZATION
This unit is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Instead of the polarized alternating-current line plug, your unit may be equipped with a 3-wire grounding-type plug (a plug having a third (grounding) pin). This plug will only fit into a grounding-type power outlet. This too, is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

12. POWER-CORD PROTECTION
Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

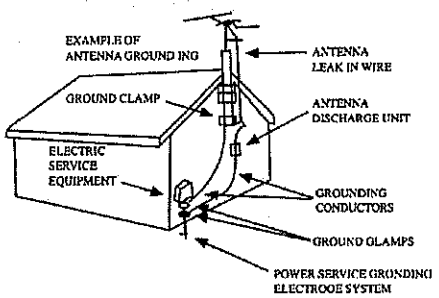
13. LIGHTNING
To protect your unit from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges.

14. POWER LINES
An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall onto or against such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.

15. OVERLOADING
Do not overload wall outlets and extension cords, as this can result in a risk of fire or electric shock.

16. OBJECT AND LIQUID ENTRY
Do not push objects through any openings in this unit, as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.

17. OUTDOOR ANTENNA GROUNDING
If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical Code (NEC), ANSI/NFPA70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



18. SERVICING
Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Important safety Instructions

19. DAMAGE REQUIRING SERVICE
Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. When the power-supply cord or plug is damaged.
b. If liquid has been spilled, or objects have fallen into the unit.
c. If the unit has been exposed to rain or water.
d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
e. If the unit has been dropped or the cabinet has been damaged.
F. When the unit exhibits a distinct change in performance, this indicates a need for service.

20. REPLACEMENT PARTS
When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

21. SAFETY CHECK
Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

22. HEAT
The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

23. DISC SLOT
Keep your fingers well clear of the disc slot as it is closing. It may cause serious personal injury.

24. CONNECTING
When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause an electric shock and serious personal injury. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections.

25. SOUND VOLUME
Reduce the volume to the minimum level before you turn on the product. Otherwise, sudden high volume sound may cause hearing or speaker damage.

26. SOUND DISTORTION
Do not allow the product output distorted sound for a long time. It may cause speaker overheating and fire.

27. LASER BEAM
Do not look into the opening of the disc slot or ventilation opening of the product to see the source of the laser beam. It may cause sight damage.

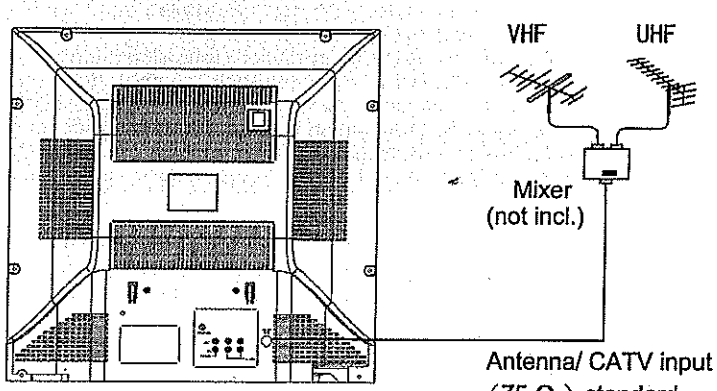
28. DISC
Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

29. NOTE TO CABLE TV SYSTEM INSTALLER
This reminder is provided to call the Cable TV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Installation

Antenna connection

Generally speaking, to enjoy a clearer picture, we recommend that you use a CATV system or an outdoor antenna .In different places, the suitable antenna type and position may vary.



Note:

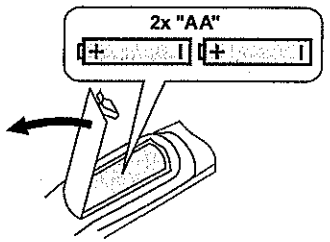
- It is recommended that a 75 ohm coaxial antenna is used to avoid interference.
- To avoid interference from electrical signals, do not bind the antenna cable together with any mains lead.

Preparation for the remote control

Battery installation

Remove the battery cover.

Insert two size AA batteries matching the +/-polarities of the battery to the +/- marks inside the battery compartment.



Tips for remote operation

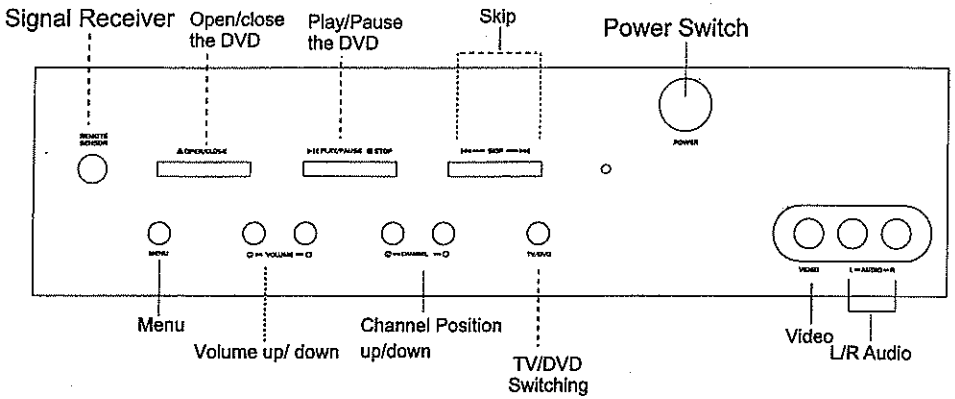
When the remote control will not be used for a long period of time or when the batteries are worn out, remove the batteries to prevent leakage.

Do not throw the batteries into fire. Dispose of used batteries in the specified manner.

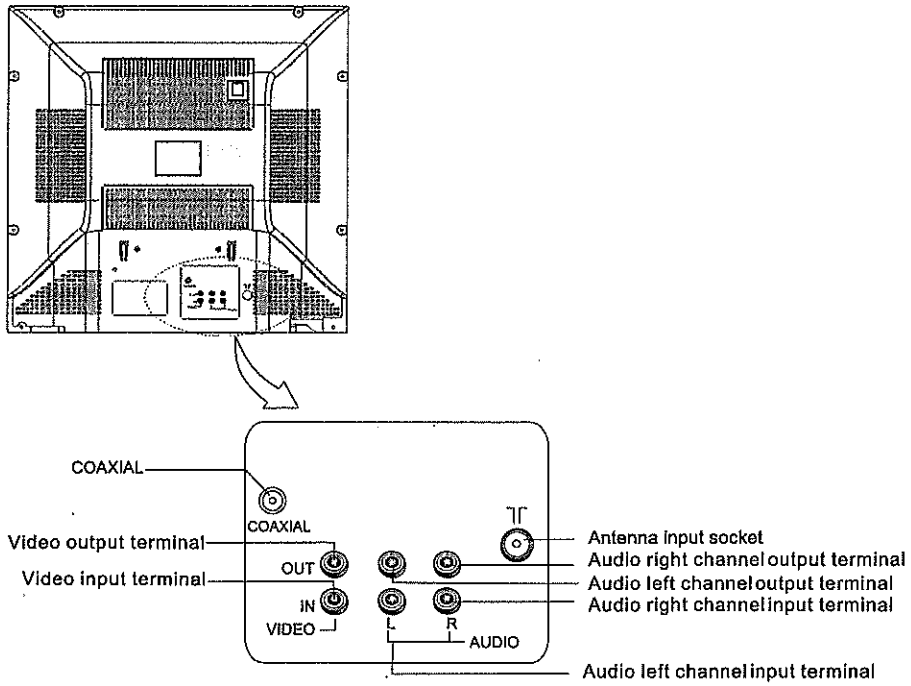
Do not drop, dampen or disassemble the remote control.

Function Buttons and External Connections

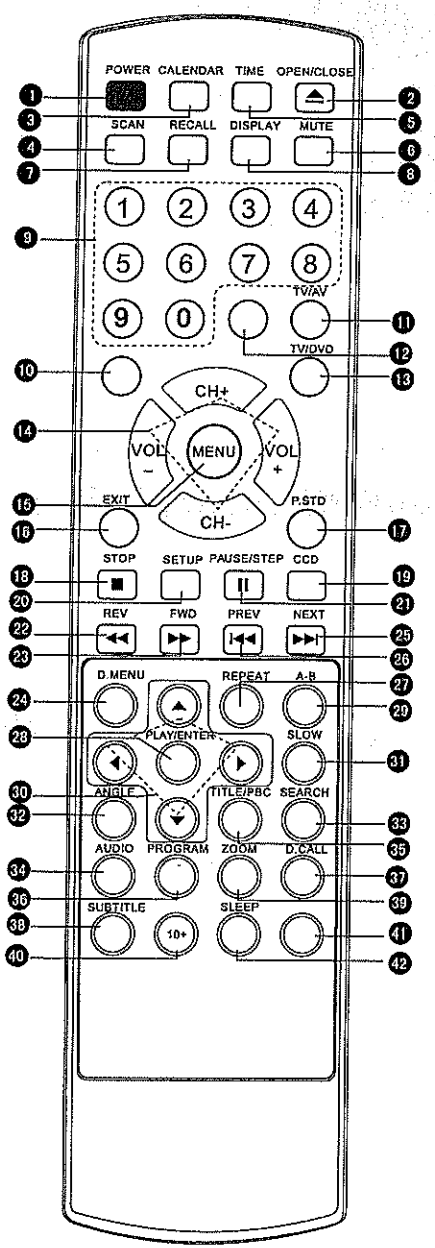
Front panel the TV set



Rear panel of the TV set



Using the Remote Control



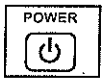
Buttons on the remote control

1. Stand By
2. DVD Open/close
3. Calendar
4. Scan
5. TV Time Menu
6. Mute
7. Former Program
8. Call Screen Display
9. Program Number
10. (Not available)
11. TV/AV Exchange
12. (Not available)
13. TV/DVD
14. Volume/Channel Selection
15. MENU
16. Exit Screen Display
17. Picture Mode
18. DVD STOP
19. CCD (closed caption)
20. DVD SETUP
21. DVD PAUSE/STEP
22. DVD FAST REVERSE
23. DVD FAST FORWARD
24. DVD MENU
25. DVD NEXT
26. DVD PREVIOUS
27. DVD REPEAT
28. DVD PLAY/ENTER
29. DVD A-B REPEAT
30. DVD Cursor Move button (UP / LEFT / RIGHT / DOWN)
31. DVD SLOW
32. DVD ANGLE
33. DVD SEARCH
34. DVD Audio
35. DVD TITLE
36. DVD PROGRAM
37. DVD CALL
38. DVD SUBTITLE
39. Zoom
40. DVD 10+
41. (Not available)
42. TV Sleep button

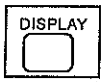
Using the Remote Control (Continued)

Remote Features

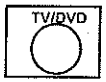
Power Button:
To turn power ON or OFF , press power button on remote control.



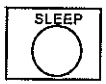
System and Channel Display Button:
This will show you the current channel number. System will also be displayed if set.



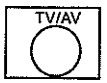
DVD/TV Button:
Press this button to change between TV and DVD.



Sleep Timer Button:
This feature allows you to turn off television in pre-selected minutes (180.170,160, ...,10 and 0). To cancel, keep pressing button until you exit out.



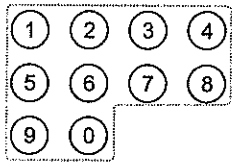
TV/AV input Button:
This button has five setting A)Video1, B)Video 2,C)TV , Pressing this button will cycle you through each option.



Mute Button:
Press mute button to turn off the TV volume.

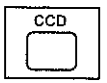
One Digit Channel Select:
When you want to select one digit channel ,press the number button on the number pad.

Two Digit Channel Select:
When you want to select two-digit channel. press the two number buttons on the number pad.



Three Digit Channel Select:
When you want to select a three digit channel .Press the three number buttons on the number pad.

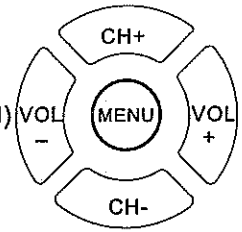
CCD Button:
Press CCD button to set the C.Caption (Closed Captioned) ON or OFF.



OPEN/CLOSE Button:
Press this button to open or close the DVD disc tray .

Using the Remote Control (Continued)

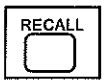
Channel (+/-) Select Button:
You can go up and down the channels by pressing CH (+) button and CH (-) button. This button can also be used in adjusting the functions in the Menu Mode.



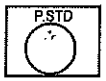
Menu Select Button:
You can select the menu by pressing the MENU button. You can call on the menu (PICTURE, TIME, TUNE and FUNCTION) by pressing the corresponding button on the remote control.

Volume (+/-) Select Button:
You can increase the volume by pressing VOL (+) button and decrease VOL(-) button. This button can also be used in adjusting the function selections in the Menu Mode.

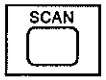
Last Channel Recall Button:
This feature allows you to recall the previously viewed channel.



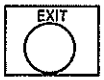
Picture Preference Select Button:
By pressing this exclusive personal preference button, you can select different preset brightness shades for various viewing environments.



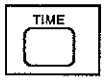
Program Scan Button:
This feature automatically scans the available channels. Pressing it again stops the channel scanning.



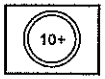
System and Channel Display Cancel Button:
This button allows you to turn off the channel display and exit system menus.



Time Menu Button:
When pressed it displays Time Menu Screen.



10+ Button:
This button can also be used to select 2 digit channel numbers.

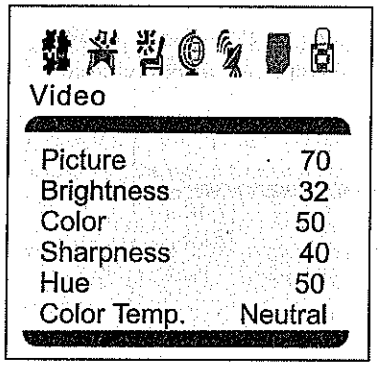


Menu Functions

Information to user: This television receiver is equipped with close caption decoder and parental blocking technology as required by the FCC.

Menu Functions

Video Setup:
Pressing MENU button once will bring the Video Setup menu on the TV. The following is shown on your TV screen:



Follow the procedure below to adjust the picture quality of your choice:
1. Press the CH(+) and CH(-) button to go up and down the menu.
2. Press the VOL(+) and VOL(-) button to increase and decrease the level to your preference for each item.

Adjustment of Picture Quality:

To adjust the picture quality from the factory preset read the following:

Picture: By increasing the level. It will adjust white areas of picture and by decreasing the level , it will adjust black areas of picture.

Brightness: By increasing the level, it will add more light to dark parts of the picture and by decreasing the level, it will add more dark to light parts of the picture.

Color: By increasing the level. It will adjust the low and the high level of the picture.

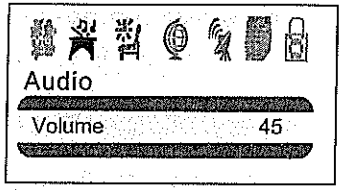
Sharpness: By increasing decreasing the level, it will show cleaner and clearer images and by decreasing the level, it will make picture smoother.

Hue: You can adjust the tint of the picture by going into picture set up menu. By decreasing the level, it will give red tint to skin color and by increasing the color it will give green tint to skin color.

Color Temp : By pressing the VOL(-/+) buttons to select the three setting A)Neutral, B)Warm,C)Cool.

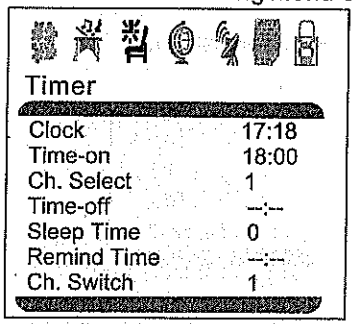
Menu Functions (Continued)

Audio Setup:
By pressing MENU button ,and then pressing VOL(-/+) buttons it will bring you to Audio Setup display. You will see the following menu on your TV screen:



Follow the procedure below to adjust the sound quality:
Press VOL (+) button to increase and VOL (-)button to decrease the level to your preference.

Timer Setup:
By pressing MENU button ,and then pressing VOL(-/+) buttons it will bring you to Timer Setup display. You will see the following menu on your TV screen:



Follow the procedure below to select one of the above options:
1.Press the CH(+) and CH(-) button to go up and down the menu.
2.Press VOL (+) button or VOL (-) button to select your preference.

Clock: Press VOL (-/+) buttons for HOURS and VOL(-/+) buttons for MINUTES adjustment.

Time-On: Press VOL(-/+) buttons for HOURS and VOL (-/+) buttons for MINUTES adjustment. This feature works like an alarm clock. Your TV will turn on at the set time.

Ch. Select: This feature switches you to your favorite channel at the appropriate set time. Press VOL(+) and VOL(-) buttons to select the channel.

Time-Off : Press VOL (+/-) buttons for HOURS and VOL (+/-) buttons for MINUTES adjustment. This feature works like an alarm clock. Your TV will turn off at the set time.

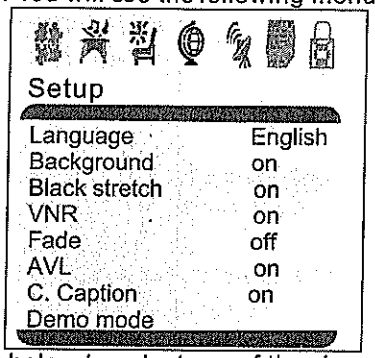
Sleep Time: This feature allows you to turn off television in pre-selected minutes (180, 170,160, ...,10 and 0).

Remind Time: Press VOL(+/-) buttons to set HOURS of attention and VOL (+/-) buttons to set MINUTES of attention. You will see the flashing time on your TV when the reminder time arrives. Note: This exclusive feature can remind you of important chores while watching TV.(e.g. Time to take pills, time to check cooking, time to call , time to do homework ,etc.)

Ch. Switch: This feature lets you store your favorite channel. Once you store the channel number in this function, when the set time is up, it will switch over to the set channel. This feature is used with the Exchange feature. Press VOL(+) or VOL(-) button to select the channel.

Menu Functions (Continued)

Function Setup:
By pressing the MENU button, and then pressing VOL(-/+) buttons will bring you to Function Setup menu. You will see the following menu on your screen:



Follow the procedure below to select one of the above options:
1.Press the CH(+) and CH(-) button to go up and down the menu.
2.Press the VOL(+) and VOL(-) button to increase and decrease the level to your preference for each item.

Language: Use VOL(-/+) buttons to select the OSD in either English, French or Spanish.

Background: Press the VOL (-/+) buttons to select between Background ON or Background OFF. When the Background ON function is chosen, a moving "NO SIGNAL" sign will be displayed if there is no input signal to the set.

Black Stretch: Press VOL (-/+) buttons to turn the Black Stretch feature on or off. When the Black Stretch function is on the screen automatically in creases the contrast range.

VNR: Press VOL (-/+) buttons to turn the VNR function on or off. VNR is a term for Video Noise Reduction, a built-in device on the set that reduces video noise interference so the viewer is assured a clear picture.

Fade: The FADE control allows for the picture tube to warm up and gently turn on, which can help prolong the life of the picture tube.

AVL: Automatic Volume Limit control reduces effect of large volume changes such as when the ads come on.Press VOL(+) button or VOL (-) button to set it ON or OFF.

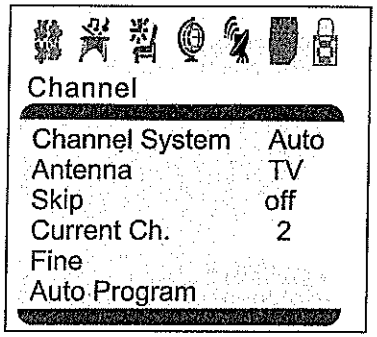
C.Caption: Press VOL (-/+) buttons to select the Closed Caption options. Closed Captioning helps the hearing impaired with the broadcast program, as well as helping children learn how to read. A built in decoder displays the audio portion of a program as text on the screen when this option is selected.
OFF: When off is displayed on TV means C.Caption is turned off.
CC1: When CC1 displays on TV means C.Caption is turned on.
CC2 to CC4: For other modes of video related broadcast information.
T1: For program guide and other information displayed by broadcasters. (This blocks a large portion of the picture on your screen).
T2 to T4 :For other modes of information displayed by broadcasters. (This blocks a large portion of the picture on your screen).

Note: Select CC1 for full translation of the primary language such as English in your area. Select CC2 for secondary language translation such as French or any other language that may be broadcast in your area.

Demo Mode: This will display the main functions of the TV set.

Menu Functions (Continued)

hannel setup:
y pressing MENU button ,and then pressing VOL-/+ button it will bring you to hannel Setup. You will see the following display on TV screen.



ollow the procedure below to select above options:
Press the CH(+) and CH(-) button to go up and down the menu.
Press VOL (+) button or VOL (-) button to select your preference.

ıannel System: Press the VOL(-/+) buttons to select the correct channel system. In general, you can set it as "AUTO" (AUTO,NTSC and NTSC443 " will display in turn)

ıtenna: Press VOL(+) button or VOL(-) button to select TV or CATV.

ip : Press VOL(+) button or VOL(-) button to add or delete the channel from the stored memory.

ırrent Ch. : Press VOL(+) button to go up and VOL (-) button to go down to set the channel position. The display will show the current playing channel.

Channel Coverage by Antenna:

Antenna Type	Channel Range
VHF	2-13
UHF	14-69
CATV	1-125

ne: If the picture and/or sound are poor, try using the FINE TUNE feature. Do not use this feature unless reception is poor. Press VOL (+/-) to start the Fine Tune function.

ıto Program: Press VOL (+) button to auto program in channels. This search automatically adds only the active channels in your area to the TV's memory. It deletes any channels on which there is no broadcast or a poor signal.

ote: The Auto Search function will scan the channels on the selected antenna put. If the TV is connected to cable, please select Cable under Antenna.

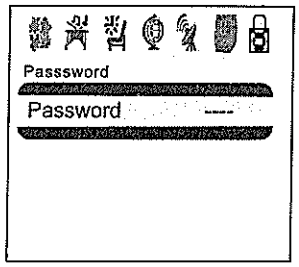
Menu Functions (Continued)

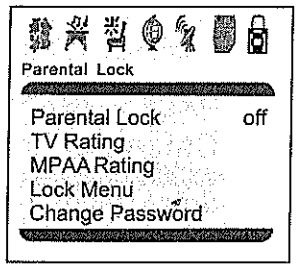
Calendar:
Your TV has been designed with a calendar. By pressing MENU button ,and then pressing VOL(-/+) buttons it will bring you to Calendar. You will see the following display on TV screen.

Follow the procedure below to adjust the Calendar quality:
1. Press the CH(+/-) buttons to select the year item, the month item or the date item.
2. Press the VOL(-/+) buttons to change calendar setup .
3. Press EXIT button to exit the calendar mode.

Menu Functions (Continued)

V-CHIP Setup:
Press the MENU Button on your remote control to go to Password menu, then input the password (0000). It will bring Parental Lock set up display on the screen. You will see the following menu on your screen:



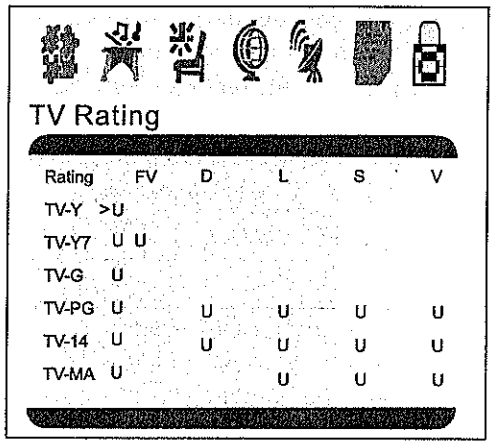


This function enables you to lock certain TV channels in accordance to the V-CHIP requirement established by the FCC.

To set the V-CHIP function:
Select the TV Rating option. You will see the TV Rating menu on your TV screen:

1.Press CH(+/-) buttons to go up and down the menu.
2. Press VOL(-/+) buttons to go into TV Rating and Movie Rating menus.
3.Press VOL(-/+) buttons to set the Parental Lock ON and Parental Lock OFF.

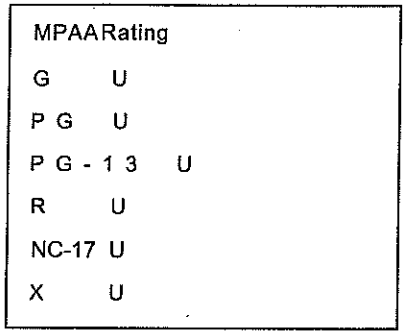
When TV rating is selected, you will see the following rating table on your TV screen.



Note: You can press CH(+/-) buttons to go up and down the menu, then press VOL(+) button to select "B" or "U".

Menu Functions (Continued)

When MPAA Rating is selected, you will see the following rating table on your TV screen.



Note: You can press CH(+/-) buttons to go up and down the menu, then press VOL(+) button to select "B" or "U".

- Parental Lock off means the lock function is turned off. If the Parental Lock is in "off" mode then V-CHIP function will not be active to accept the V-CHIP signal.
- Parental Lock on means the lock function is turned on. If the lock is in the "on" mode then V-CHIP function is activated to accept the V-CHIP signal.

Password
The "Default Password" preset by the manufacturer is "0000". If you want to change the preset password to your own password, just choose any four digits that can be easily remembered and set. Once you set password for a particular channel, that channel will be blocked. This channel can only be accessed with the password.

Lock Menu
AV Lock: When it is set ON, you can not use the AV.
Program Lock: When it is set ON, the current channel is locked, you can not see the program of this channel.

Menu Functions (Continued)

V-Chip Technology:
The "V-Chip Technology" allow you to use U.S. And Canada Movies and TV PROGRAMS Guide ratings to block certain types of TV programs and movies.

To understand clearly about TV programs rating codes, read the following list:

U.S. TV Program Ratings
NR: Not Rated-this means that programs are not rated or rating does not apply.
TV-Y: For all children-this type of rated programs are designed for a very young audience, including children from ages 2-6.

TV-Y7: Directed for older children - this type of rated programs may include comedic violence of mild physical, or may frighten children under the age of 7.
TV-G: General Audience-this type of rated programs contains little or no violence, no strong language, and little or no sexual dialogue and situations.
TV-PG:Parental Guidance Suggested-this type of rated programs may contain limited violence, some suggestive sexual dialogue and situations, and rare language.
TV-14: Parents strongly cautioned-this type of rated programs may contain sexual content, strong language and more intense violence.
TV-MA:Mature audience only-this type of rated programs may contain sexual violence, explicit sexual content and profane language.
=V: This type of rated programs contain Fantasy and cartoon violence.
/iolence: This type of rated programs contain violence.
S: This type of rated programs contain sex.
.: This type of rated programs contain offensive language.
): This type of rated programs contain dialogue with sexual content.

Menu Functions (Continued)

To understand clearly about movies rating codes, read the following list:

U.S. Movies Rating Chart

NR: This means movie is not rated yet. It is pending government rating approval.

G: General Audience-this type of movie rating means all ages admitted to see the movie.

PG-13:Parents Strongly Cautioned - this type of movie rating means some material may not be appropriate for children under13.

R: Restricted- This type of movie rating means children under 17 of age requires to be with parent or guardian.

NC-17:This type of movie rating means no one 17 and under admitted.

X: This type of movie rating means adults only.

To understand clearly about Canadian programs rating codes, read the following list:

Canadian English Rating Chart
E: Exempt - this type of rated programs contain news, sports, documentaries, talk shows, music videos, and variety of other programs.
C: This type of rated programs are intended for children under age 8. There is no offensive language, nudity or sexual content.
C8+:This type of rated programs generally considered acceptable for children 8 years and over. There is no profanity, nudity or sexual content.
G: This type of rated programs generally suitable for all audiences.
PG: Parental Guidance Suggested -in this type of rated programs, some material may not be suitable for children.
14+: In this type of rated programs, some content may not be suitable for viewers under the age of 14.Parents are strongly cautioned not to have their children view 14+ rated programs by pre-teens and early teens.
18: Adults Only-this type of rated programs are only for adult viewers only.

DVD Features

Basic Playback

Preparations

Press the DVD/TV button on the remote control or ıe TV to enter the DVD status.

Basic playback

. Press OPEN/CLOSE to open the disc tray, place a disc in the disc tray.

- There are two different disc sizes. Place the disc in the correct guide on the disc tray. If the disc is out of the guide, it may damage the disc and cause the DVD player to malfunction.
- Do not place a disc which is unplayable in this DVD player.

. Press OPEN/CLOSE to close the disc tray, the playback will automatically start.

- Some discs do not start automatically. Press PLAY/ENTER to start playback.

Some discs may start playback with a menu. Use ıe cursor buttons on the remote control to select ıenu options and press PLAY/ENTER to start. You ıay also press the digit buttons to select a menu ɔtion directly. Many DVDs will not allow this during art-up.

Pause playback

Press PAUSE/STEP to pause playback (still mode). The sound will be muted during still mode. Press PLAY/ENTER to resume normal playback.

Stop playback

1. Press STOP ■ button to go to stop mode, the TV screen will show the start logo. As some disc the player can recall the location where stopped, such as DVDs and audio CDs.
2. Press PLAY/ENTER to playback to resume playback from the location where playback is stopped or from the beginning of the disc.
3. Press STOP twice to stop completely.

Previous and Next

During Playing, pressing the PREV ⏮ key will restart the current chapter and skip chapters backwards with each subsequent press until the start of the disc is reached.
Each press of NEXT ⏭ key during playing will skip the current chapter and play the next one.

Fast forward and Fast reverse

1. Press FWD ▶▶ to fast forward through the disc. Each time the FWD ▶▶ button is pressed, the fast forward motion speed changes.
2. Press PLAY/ENTER to resume normal playback.
3. Press REV ◀◀ to fast reverse through the disc. Each time the REV ◀◀ button is pressed, the fast reverse motion speed changes.
4. Press PLAY/ENTER to resume normal playback.

Single step playback

1. When paused, press PAUSE/STEP continuous to single step forward to the next frame in the video.
2. Press PLAY/ENTER to resume normal playback.

DVD Features(Continued)

Advanced Playback

IMPORTANT NOTE:
ALL DESCRIBED FUNCTION IS FOR DVD DISCS. IF YOU PLAY OTHER FORMAT DISCS, THE OPERATION AND ON SCREEN DISPLAY WILL BE DIFFERENT.

SUBTITLE

Press " SUBTITLE ", the screen will display "SUBTITLE 01/XX XXXXX", "01" indicates the ordinal number of this language; "XX" indicates total number of language; "XXXXXX" indicates the language of country. (the number of language depends on disc). This function can select up to 32 languages displayed on screen.

REPEAT

Press " REPEAT " and Chapter repeat will be displayed on screen, the second press will display Title repeat, the third press will display All repeat, the fourth press will cancel this function.

A-B

Press " A-B " to begin start-point, press again to set an end point and complete setting. The selected section A-B will be repeated. The third press will cancel this function.

ANGLE

When enjoying sports, concert or theatre, press this key to watch same actions in different angles. (Valid for discs possessing this function. Using a disc recorded in multi-angle you can view the scene from different angles,for example,front, side, whole view and exterior scene).

D.MENU

Press this key to display root menu,select item according to your preference. (This function will work with a DVD having a multi-layer menu.)

D.CALL

Pressing this key will cycle through "Title Elapsed", "Title Remain", "Chapter Elapsed", "Chapter Remain" and "Display off ".

PROGRAM

When playing discs, press "PROGRAM" to enter program mode. Press the digit buttons to select the program number that you want. When finished move the cursor to select "START" . This will start the program playback.

SEARCH

Press "SEARCH" once to display the search menu. Press the button again to select. Press the program number buttons to input the item you require. Press PLAY/ENTER to confirm.

SLOW

Press SLOW to play a disc in slow forward. Each time the SLOW button is pressed, the slow motion speed changes.
Press PLAY/ENTER to resume normal playback;

Note: This function dose not work for CD and MP3.

TITLE/PBC

With some DVD discs pressing this key will display the title menu. You can then use the digit buttons to select the item you prefer.

AUDIO

Press this key can change the mode of audio.
such as: Audio 1/2: AC 3 2 CH English
Audio 2/2: AC 3 5.1 CH English
Press this button to cycle between Mono Left, Mono Right, Mix-Mono and Stereo.

Note: When press this button continuously, you must above 3 seconds interval.

Special Function Playback

JPEG DISC PLAYBACK

When a disc containing standard JPEG picture files is inserted into the player, a navigation menu will be displayed automatically. Use the UP and DOWN cursor buttons to select a file then press PLAY/ENTER. The slide show will commence. Press PREVIOUS or NEXT to move between pictures. Press pause to stop on the current picture. Press PLAY/ENTER to resume normal playing.
A JPEG disc contains JPEG (.jpg) format picture information that can be decoded by a micro-computer software and displayed through the video output interface or on the television screen.
This function has many applications. For example one can save files from a scanner or digital camera in the JPEG format, record these on a CD-R disc and present them to an audience through this player.
The JPEG format is a convienient method to store images in a small amount of memory space, and is ideal for archiving information.

MP3 PLAYBACK

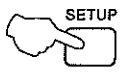
When playing an MP3 disc, a navigation menu will be displayed automatically. In the menu, use UP or DOWN cursor buttons to choose the folder, then press PLAY/ENTER to enter the folder. Use the UP and DOWN cursor buttons to select the file and press PLAY/ENTER. Pressing the LEFT cursor button will take you to the previous screen/menu.

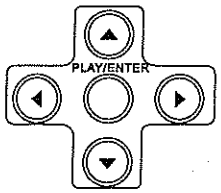
SCREEN SAVER FUNCTION

This unit employs a screen saver mode to help protect the tube during static video pictures. This can be turned off on the GENERAL SETUP PAGE.

DVD System Setup

DVD System Setup





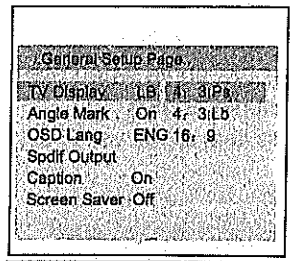
General Setup Process

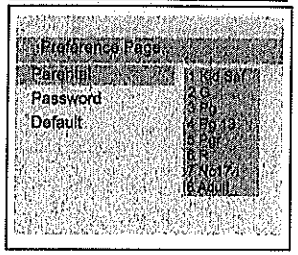
1.Press the SETUP button, the General Setup Page, Preference Page will be displayed in turn.

2.Press ▲ or ▼ to select, the item, then press ▶ to enter the submenu.

3.Press ▲ or ▼ to select then press PLAY/ENTER to confirm.

4.Press EXIT key or press SETUP repeatedly to exit the set-up menus.



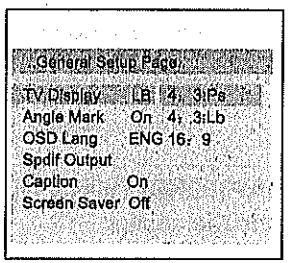


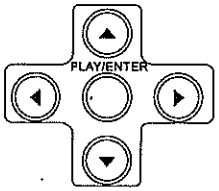
General Setup Page

ASPECT RATIO DESCRIPTION

When using the DVD with the internal TV, select 4: 3/LB.

The following information applies only when the DVD output is connected to an external TV.

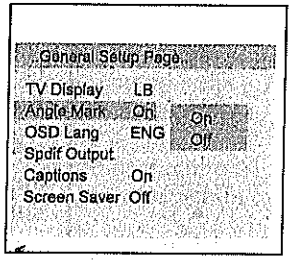




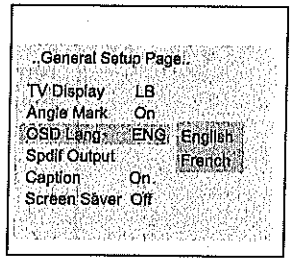
- 4:3/PS (PS = Pan and Scan)
You may select if you have a normal aspect ratio (4:3) TV, although the NORMAL/LB (letter box) is a more common choice. In PS mode, widescreen material will fill the screen, but at the expense of chopping off extreme left and right edges of the original film picture. For this feature to work, the disc must be specially coded. Such discs are uncommon.
- 4:3/LB (LB = Letter Box)
You may select this if you have a normal aspect ratio (4:3) TV. Widescreen material will be shown in pure unaltered form, allowing the entire picture area of the original film to be viewed without any side cropping. Black bars will appear above and below the picture.
- 16:9
You may select this if you have a widescreen (16:9) TV. Back bars may still appear above and below the picture even if using a widescreen TV. This is because some film directors prefer to use ultra widescreen aspect ratios e.g. 2.35:1. This will normally be indicated on the DVD packaging.

General Setup Page

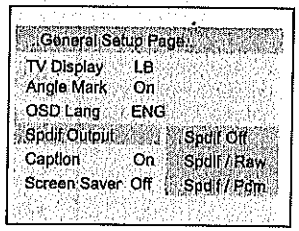
ANGLE MARK: Users can select a particular camera angle when playing a DVD which offers multiple angles.
This item allows you to set Angle Mark ON or OFF.



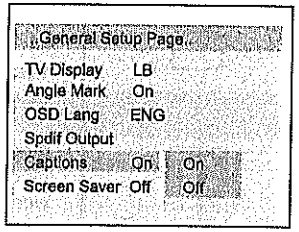
On Screen Display (OSD) Language: Users can select on-screen display language.



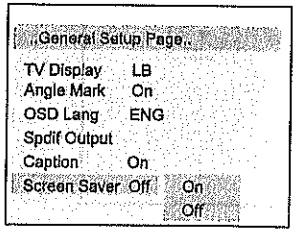
SPDIF OUTPUT MODE: Sets the audio outputs.
This DVD player includes three kinds of audio output:
1. **SPDIF OFF:** An analog surround sound format is output through the back-panel connections for 2-CH audio out or 5.1 CH audio out.
2. **SPDIF/RAW or SPDIF/PCM:** This surround sound format is output to a Dolby Digital/DTS decoder through the coaxial connector on the back panel of the product.



CAPTIONS: This function allows you to display or hide the caption.

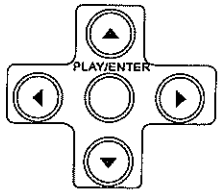


SCREEN SAVER: If the screen saver is on, then there will be an animated picture of DVD on the screen whenever the DVD player is idle for more than 3 minutes .

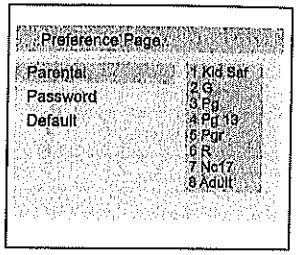


Preference Page

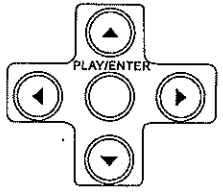
The Preference Page is only available when there is no disc in the player. These settings are applied consistently to all discs which are inserted and played.



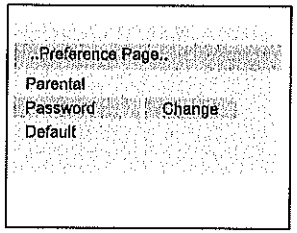
PARENTAL: The parental control function works in conjunction with the different censorship classes assigned to DVDs. These classes help to control the types of DVDs that the family watches, There are up to 8 censorship classes for DVDs.

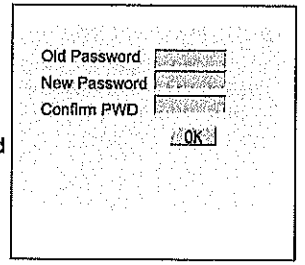


Note:
1 To change this setting you must enter your password. (Initial password is 0000)
2 When set to OFF, all discs may be viewed.



PASSWORD CHANGE:
You can change your password by entering 4 digits. You must confirm the 4 digits before the new password can be accepted.

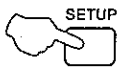


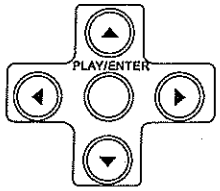


NOTE:If you forget your password or a password is accidentally set enter 1369 as the password. This will enable you to regain control.

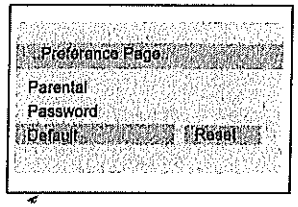
DVD System Setup(Continued)

DVD System Setup





DEFAULT: Resets all settings (except password and parental lock status) for this DVD player back to the manufacturers original settings. Press ENTER to perform the reset.



Note:
Some functions may not be available depending on the type of disc.

Playable Discs

The following discs can be played:

DISCS	LABEL	CONTENTS	DIMENSION
DVD VIDEO	DVD VIDEO	Audio +Video (moving picture)	12cm
			8cm
AUDIO CD	COMPACT disc DIGITAL AUDIO	Audio	12cm
			8cm
HDCD	HDCD®	Audio	12cm
			8cm
MP3	MP3	Audio	12cm
			8cm
JPEG	JPEG	Video(picture)	12cm
			8cm
KODAK CD	Kodak PICTURE CD COMPATIBLE	Video(picture)	12cm
			8cm
CD-R	CD•R	Audio or Video (moving picture)	12cm
			8cm
CD-RW	CD-RW	Audio or Video (moving picture)	12cm
			8cm
CD+G	CD+G	Audio(picture)	12cm
			8cm

- You cannot play discs other than those listed above.
- You cannot play non-standardized discs, even if they may be labelled as above.
- The performance of CD-R or CD-RW disc depends on the way the disc was burned. In a few cases, their performance may not be consistant or may not even operate at all.

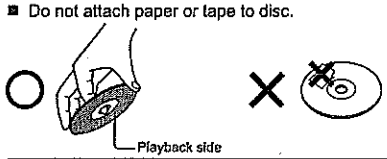
This DVD Player is designed and manufactured according to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this DVD Player, this DVD player will not play that disc.

This Region number of this DVD Player is .

Disc Protection and DVD Characteristics

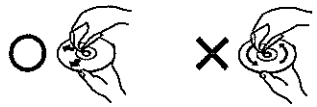
ON HANDLING DISCS

- Do not touch the playback side of the disc.
- Do not attach paper or tape to disc.



ON CLEANING DISCS

- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the centre outwards with a soft cloth. Always keep the disc clean.



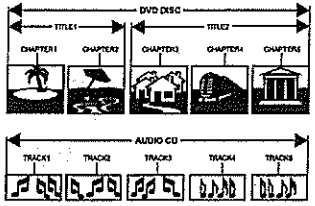
- If you can not wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as thinner, benzine, commercially available cleaners or anti-static spray for vinyl Lps. It may damage the disc.

ON STORING DISCS

- Do not store discs in a place subject to direct sunlight or near heat source.
- Do not store discs in place subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing object on discs outside of their case may cause warping.

STRUCTURE OF DISC CONTENTS

Normally, DVD discs are divided into titles, and the titles are sub-divided into chapters. Audio CD are divided into tracks.



Each title, chapter, or track is assigned a number, which is called title number, chapter number or track number respectively.
There may be discs that do not have these number.

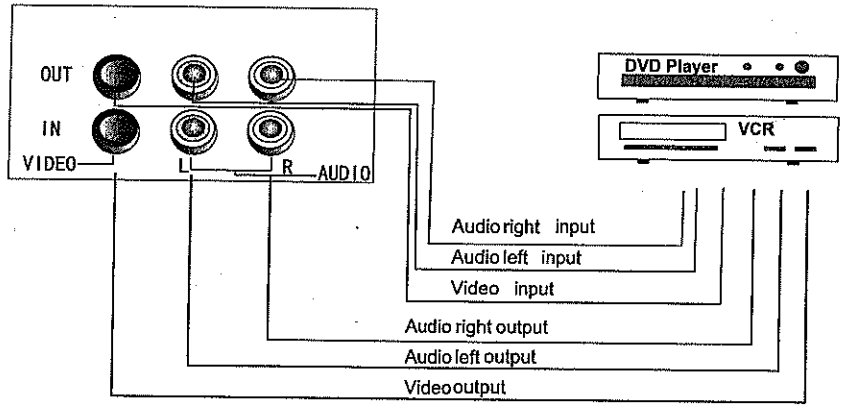
Compare DVD disc with other discs:

	DVD				LD	SVCD	VCD	CD
Encode method	Digital/MPEG Ⅱ				Analog	Digital	Digital/ MPEG I	Digital
Capacity	Single-side single-layer 4.7G	Double-side single-layer 8.5G	Single-side double-layer 9.4G	Double-side double-layer 17G		650MB	650MB	650MB
Playing Time	133 minutes	242 minutes	266 minutes	484 minutes	Single-side 60 minutes double-side 120 minutes	45 minutes	74 minutes	74 minutes
Disc diameter	12cm/8cm				30cm/20cm	12cm	12cm	12cm/8cm
Horizontal resolution	More than 500 line				No more than 430 line	No more than 350 line	No more than 250 line	
Picture proportion	Multiple kinds				One kind	One kind	One kind	
Subtitle	32 kinds				16 kinds at most	4 kinds		
Language	8 kinds				4 kinds at most	4 kinds at most	2 kinds	2 kinds
Sound quality	48KHz, 96KHz/ 6, 20, 24bit				44.1KHz/ 16bit	44.1KHz/ 16bit	44.1KHz/ 16bit	44.1KHz/ 16bit

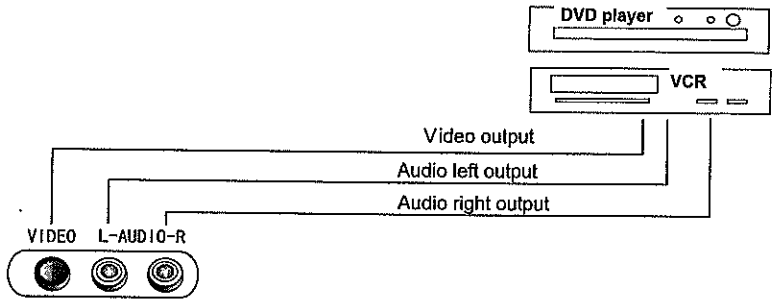
Connecting the TV set to the other video and audio equipment

Connection of AV input/output terminal

The figure below shows how to connect external equipment using AV signals.



There is also an AV input on the front of your television. Use the Left Audio input (white terminal on the TV), if you are connecting equipment with mono sound. The MONO sound will be delivered by both left and right speakers.



Troubleshooting guide

• To assist in location possible faults use help guide below.

BREAKDOWN PHENOMENON		CHECKING
PICTURE	SOUND	
Picture with snow	Noise	The aerial direction and connection
Double or Triple Image	Normal	This is called "ghosting" and can be minimized with an outside aerial, and good quality cable and terminations. Altering the aerial direction can also minimize this effect.
Disturb	Noise	Electrical interference which can be caused by cars, motorbikes etc, Fluorescent lamps and dirty insulators on overhead power cables.
Normal	No sound	Volume Sound mute
No Picture	No sound	Ensure that the power supply is connected to the TV set and turned on. Also ensure that the TV set is not in "Listen Mode" or that the brightness and contrast are not turned down.
No colour	Normal volume	Adjust colour control
Scramble	Normal or Weak Volume	Adjust channel again
Colour Spot	Normal volume	Colour Purity is a fault that can be caused by moving the TV set, placing magnets near the TV screen or turning on/off house hold appliances such as vacuum cleaners near the TV set. Turn the TV off with the main power switch for 15 minutes. When the power is turned on again the TV set will automatically degauss the picture. In severe cases leave the TV set turned off over night.

Note:

1.If the fault can not be corrected using the above guide consult with your local authorized service center.

2.The TV set must only be repaired by a qualified registered service person. Never attempt to remove the back cover as TV set has dangerous voltages inside that may cause a fatality or fire.

3. The cabinet may produce the occasional "snapping sound" This is normal and caused by the materials in the cabinet expanding with room temperature changes.

Specifications

• The specifications offered you here are for reference only. With product improvement there may be some differences between the description and the final product.

Specifications

Model	20ED200V
Colour system	NTSC
Sound system	M
Picture tube	20″ colour picture tube
Sound output power	2X2W (10% THD)
Power requirements	AC 120V~ 60Hz
Power consumption	⩽ 80W
Dimension (WDH)	500 (Width) x480 (Depth) x485 (Height) (mm)
Accessories	Remote control X1 Owner's manual X1 Battery(AA) X2

NOTE

Design and specifications are subject to change without notice.
Dimensions quoted in this manual are approximate.

ELECTROHOME WARRANTY

Consumer Electronics Products

Thank you for choosing Electrohome!

Jutan International (hereinafter called "Jutan") gives the following express warranty to the original consumer purchaser or gift recipient for this Electrohome brand product, when shipped in its original container and sold or distributed in Canada by Jutan or by an Authorized Electrohome Dealer:

Jutan warrants that this product is free, under normal use and maintenance, from any defects in material and workmanship. If any such defects should be found in this product within the applicable warranty period, Jutan shall, at its option, repair or replace the product as specified herein. Replacement parts furnished in connection with this warranty shall be warranted for a period equal to the unexpired portion of the original equipment warranty.

This warranty shall not apply to:

a. Any defects caused or repairs required as a result of abusive operation, negligence, accident, improper installation or inappropriate use as outlined in the owner's manual.
b. Any Electrohome product tampered with, modified, adjusted or repaired by any party other than Jutan or Electrohome's Authorized Service Centres.
c. Damage caused or repairs required as a result of the use with items not specified or approved by Jutan, including but not limited to head cleaning tapes and chemical cleaning agents.
d. Any replacement of accessories, glassware, consumable or peripheral items required through normal use of the product including but not limited to earphones, remote controls, AC adapters, batteries, temperature probe, stylus, trays, filters, cables and paper.
e. Any cosmetic damage to the surface or exterior that has been defaced or caused by normal wear and tear.
f. Any damage caused by external or environmental conditions, including but not limited to transmission line/power line voltage or liquid spillage.
g. Any product received without appropriate model, serial number and CSA/cUL markings.
h. Any products used for rental or commercial purposes.
i. Any installation, setup and/or programming charges.

Should this Electrohome product fail to operate during the warranty period, warranty service may be obtained upon delivery of the Electrohome product together with proof of purchase and a copy of this LIMITED WARRANTY statement to an Authorized Electrohome Service Centre. In-home warranty service may be provided at Jutan's discretion on any Electrohome television with the screen size of 27" or larger. This warranty constitutes the entire express warranty granted by Jutan and no other dealer, service centre or their agent or employee is authorized to extend, enlarge or transfer this warranty on behalf of Jutan. To the extent the law permits, Jutan disclaims any and all liability for direct or indirect damages or losses or for any incidental, special or consequential damages or loss of profits resulting from a defect in material or workmanship relating to the product, including damages for the loss of time or use of this Electrohome product or the loss of information. The purchaser will be responsible for any removal, reinstallation, transportation and insurance costs incurred. Correction of defects, in the manner and period of time described herein, constitute complete fulfillment of all obligations and responsibilities of Jutan to the purchaser with respect to the product and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise.

WARRANTY PERIODS: Parts & Labour (exceptions noted)

Audio Products: 1 Year (Remote Control, if applicable 90 Days)
DVD Products: 1 Year (Remote Control 90 Days)
LCD & Plasma Display TV: 1 Year (Remote Control 90 Days)
Microwave Oven: 1 Year
Television Products: 1 Year (Remote Control 90 Days)
VCR Products: 1 Year (Remote Control 90 Days, Video Heads 6 Months)

To obtain the name and address of the nearest Authorized Electrohome Service Centre or Dealer, please contact:
Jutan International, 455 Gordon Baker Road, Toronto, Ontario M2H 4H2 or visit our web site: www.jutan.ca

For more information on this Warranty or Service Locations, please call (416) 499-5611 or toll free 1-800-663-5954, Monday to Friday 9:00am 5:00pm Eastern Standard Time.